



RED LINE SYNTHETIC OIL CORP.
6100 Egret Court, Benicia, CA 94510 USA TEL: (707)745-6100 FAX: (707)745-3214

Synthetic Manual Transmission Fluids

Red Line Transmission Lubricants are designed to provide excellent low-temperature shiftability and improved gear protection at higher temperatures. Efficiency improvements between 1-5% are typical. The synthetic base stocks used have tremendous thermal stability and provide the best film strength available. The unique combination of base stocks and additives allow Red Line transmission oils to carry higher loads compared to petroleum lubricants. The stability of these products allow them to be used for extended periods. MTL® can be used in most manual transmissions and transaxles for both street and racing use unless the manufacturer requires the additional protection of an SAE 90 or the extreme-pressure protection of a GL-5. In those situations the MT 90 (GL-4) or 75W90NS (GL-5) will provide good shiftability and synchro compatibility and extra gear protection. Limited-slip transaxles may require the 75W90 Gear Oil to prevent limited-slip chatter. 75W140NS is designed to help reduce the noise in noisy transmissions and transaxles, while still allowing good low-temperature shiftability. D4 ATF and High-Temp ATF provides the gear protection of a GL-4 gear oil in an automatic transmission fluid, which is far superior to a conventional ATF. This gear protection makes it perfect for lubricating automatic transaxles and high-performance automatic transmissions. The D4 ATF provides the best low-temperature shiftability. MTL® provides better wear protection in most manual transmissions which call for an ATF which can be very important in racing applications. MTL® provides the low-temperature properties equivalent to a petroleum ATF. All Red Line transmission lubricants provide excellent synchronizer compatibility.

Typical Properties

	<u>D4 ATF</u> GL 4	<u>High-Temp ATF</u> GL 4	<u>MTL®</u> GL 4	<u>MT 90</u> GL 4	<u>75W90NS</u> GL 5+	<u>75W140NS</u> GL 5+
API Service Category:						
Recommended Use:	Dexron II E / III Mercon, Mercon V	Dexron II E / III Mercon				
Viscosity Grade:						
SAE Grade (Gear Oil)	70W80	75W80	70W80	75W90	75W90	75W140
SAE Grade (Engine Oil)	0W20	5W30	5W30	15W40		
Vis @ 100 °C, cSt	7.4	10.0	10.2	14.7	14.8	26.0
Vis @ 40 °C, cSt	33.5	53.9	50.8	89.2	92	192
Viscosity Index	198	172	171	175	168	171
Brookfield Vis @ -40 °C, Poise	49	175	160	320	400	1200
Pour Point, °C	-60	-51	-50	-45	-45	-45
Pour Point, °F	-68	-60	-58	-49	-49	-49
Flash Point, °C	215	238	232	240	221	216
Flash Point, °F	419	460	450	465	430	420